

U.S. National Atlas Water Feature Areas



Tags

United States, Puerto Rico, polygon, lakes, hydrography, glaciers, inlandWaters, reservoirs, swamps, streams, water, 2012

Summary

U.S. National Atlas Water Feature Areas provides the water feature areas for geographic display and analysis at regional and national levels.

Description

U.S. National Atlas Water Feature Areas represents the water feature areas (for example, glaciers, lakes, reservoirs, and swamps) of the United States.

Credits

There are no credits for this item.

Use limitations

See Resource Constraints > legal constraints.

Extent

West -167.702866 East -65.602569
North 71.322163 South 17.930832

Scale Range

Maximum (zoomed in) 1:500,000
Minimum (zoomed out) 1:50,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS United States, Puerto Rico

TEMPORAL KEYWORDS 2012

THEME KEYWORDS polygon, lakes, hydrography, glaciers, inlandWaters, reservoirs, swamps, streams, water

Citation

TITLE U.S. National Atlas Water Feature Areas

PUBLICATION DATE 2015-12-30

EDITION 2015

PRESENTATION FORMATS * digital map

SERIES

NAME Data and Maps for ArcGIS®

ISSUE 2015 - World, Europe, and United States

OTHER CITATION DETAILS

Location: \usa\hydro

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME National Atlas of the United States

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Esri

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Redlands, California, USA

RESPONSIBLE PARTY

ORGANIZATION'S NAME Esri

CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

ARCGIS ITEM PROPERTIES

* NAME surface_water_body_area_v2

Extents

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2012-07-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -167.702866

* EAST LONGITUDE -65.602569

* NORTH LATITUDE 71.322163

* SOUTH LATITUDE 17.930832

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -18668597.682590

* EAST LONGITUDE -7302844.602984

* SOUTH LATITUDE 2029454.178209

* NORTH LATITUDE 11513337.266684

* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT

INDIVIDUAL'S NAME ArcGIS Content Team

ORGANIZATION'S NAME Esri

CONTACT'S ROLE point of contact

CONTACT INFORMATION

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TYPE both

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COUNTRY US

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Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

Resource Constraints

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS license

USE CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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CONSTRAINTS

LIMITATIONS OF USE

See Resource Constraints > legal constraints.

Spatial Reference

ARCGIS COORDINATE SYSTEM

* TYPE **Projected**

* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984

* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100

X ORIGIN -22041545.367140558

Y ORIGIN -33272760.666300893

XY SCALE 135368852.55357128

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION **true**

LATEST WELL-KNOWN IDENTIFIER 3857

WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS

["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID

["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT

["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER

["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER

["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER

["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 3857

* CODESPACE EPSG

* VERSION 8.2.6

Spatial Data Properties

VECTOR

* LEVEL OF TOPOLOGY FOR THIS DATASET **geometry only**

GEOMETRIC OBJECTS

FEATURE CLASS NAME **surface_water_body_area_v2**

* OBJECT TYPE **composite**

* OBJECT COUNT **26872**

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME **surface_water_body_area_v2**

* FEATURE TYPE **Simple**

* GEOMETRY TYPE **Polygon**

* HAS TOPOLOGY **FALSE**

* FEATURE COUNT **26872**

* SPATIAL INDEX **TRUE**

Data Quality

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL **dataset**

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY

MEASURE DESCRIPTION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

DATA QUALITY REPORT - COMPLETENESS OMISSION

MEASURE DESCRIPTION

After processing, the data set is checked for drawing display and number of records and file sizes compared with source materials.

This map layer contains water bodies of the United States and Puerto Rico. Only water bodies appropriate for a 1:1,000,000- scale data set are included. Water bodies smaller than one square kilometer are excluded unless one of the following applies: they are in the National Atlas 1:2,000,000-scale map layer, they are in other small- scale data sets or maps, they cover a small coastal island, they have been merged with a larger feature, or their size has been reduced during alignment with other 1:1,000,000-scale map layers.

Swamps and marshes may be underrepresented in some areas. In the southeastern U.S., some swamp/marsh limits were difficult to determine due to unclear or conflicting information in imagery, topographical maps, and landcover. In Alaska, swamps and marshes appear to be underrepresented when compared to landcover data sets and topographical maps. Water bodies may also be underrepresented in areas that contain large numbers of small isolated features which were too far apart to aggregate and too small to be included by themselves.

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY

DIMENSION **horizontal**

MEASURE DESCRIPTION

Water bodies are in approximately the same locations as in the NHD 100K water bodies data used as a source. However, many processes and editing tasks resulted in the movement of water body limits from their original positions, including: generalizing and aggregating water bodies, modifying water bodies to meet minimum width standards, moving water body limits 300 meters from transportation features if the two were parallel, extending or trimming water bodies to intersect coastlines or international boundaries, increasing or decreasing the gap between neighboring water bodies, adjusting water bodies to fit the streams that flow through them, and modifying water bodies to match imagery.

Horizontal positions are specified in geographic coordinates in decimal degrees. Latitudes are given to the nearest 0.000150. Longitudes are given to the nearest 0.000150. The positional accuracy is unknown.

DATA QUALITY REPORT - TOPOLOGICAL CONSISTENCY

MEASURE DESCRIPTION

Water bodies were checked for topological consistency using ArcGIS, to ensure there were no overlapping water bodies or small gaps between water bodies. The topology rules were also used to check the alignment of water bodies with coastlines and international borders. Multi-part features were divided into separate water bodies. Water bodies were compared to aerial imagery to verify location and extent.

Lineage

PROCESS STEP

WHEN THE PROCESS OCCURRED 2013-11-06 00:00:00

DESCRIPTION

The following steps were performed by Esri: Downloaded the compressed file from the National Atlas of the United States® and extracted it. Removed unneeded fields. Renamed some fields. Projected the dataset into WGS 1984. Converted the dataset into a file geodatabase.

SOURCE DATA

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION

ALTERNATE TITLES National Atlas

SOURCE DATA

DESCRIPTION

Attribute and geospatial data

SOURCE MEDIUM NAME online link

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 1000000

SOURCE CITATION

TITLE 1:1,000,000-Scale Waterbodies of the United States

ALTERNATE TITLES National Atlas

PUBLICATION DATE 2012-07-01 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

RESPONSIBLE PARTY

ORGANIZATION'S NAME National Atlas of the United States

CONTACT'S ROLE originator

CONTACT INFORMATION

ADDRESS

TYPE

DELIVERY POINT Rolla, Missouri, USA

ONLINE RESOURCE

LOCATION <http://nationalatlas.gov/metadata/wtrbdyp010.faq.html>

RESPONSIBLE PARTY

ORGANIZATION'S NAME United States Geological Survey

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

TYPE

DELIVERY POINT Reston, Virginia, USA

RESOURCE LOCATION ONLINE

LOCATION <http://nationalatlas.gov/atlasftp-1m.html>

FUNCTION PERFORMED download

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2012-07-01 00:00:00

Distribution

DISTRIBUTOR

CONTACT INFORMATION

ORGANIZATION'S NAME Esri; Esri Offices

CONTACT'S ROLE distributor

CONTACT INFORMATION

PHONE

VOICE 800-447-9778

ADDRESS

TYPE both

DELIVERY POINT 380 New York Street

CITY Redlands

ADMINISTRATIVE AREA California

POSTAL CODE 92373-8100

COUNTRY US

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AVAILABLE FORMAT

NAME File Geodatabase Feature Class

FILE DECOMPRESSION TECHNIQUE ArcGIS® software

FORMAT INFORMATION CONTENT To use this data requires software that supports FGDB files.

ORDERING PROCESS

TERMS AND FEES Software purchase price

INSTRUCTIONS

Data and Maps is available only as part of Esri® software.

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION <http://www.ArcGIS.com>

DESCRIPTION Downloadable Data

TRANSFER OPTIONS

MEDIUM OF DISTRIBUTION

MEDIUM NAME DVD-ROM

HOW DATA IS WRITTEN Universal Disk Format file system

RECORDING DENSITY 4.38 or 7.95

DENSITY UNITS OF MEASURE GB (gigabytes)

LIMITATIONS FOR USING THE MEDIUM

Offline Data

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT [surface_water_body_area_v2](#) ►

* TYPE Feature Class

* ROW COUNT 26872

DEFINITION

The polygons represent the water feature areas within United States.

DEFINITION SOURCE

National Atlas of the United States

FIELD [ObjectID](#) ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD [Shape](#) ►

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION
Feature geometry.

* DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES
Coordinates defining the features.

FIELD NAME ►

* ALIAS Name
* DATA TYPE String
* WIDTH 150
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The proper name of the water feature.

DESCRIPTION SOURCE

National Atlas of the United States

DESCRIPTION OF VALUES

Names for the features.

FIELD FEATURE ►

* ALIAS Feature
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The type of water feature.

DESCRIPTION SOURCE

National Atlas of the United States

LIST OF VALUES

VALUE Canal

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION An artificial open waterway constructed to transport water, to irrigate or drain land, to connect two or more bodies of water, or to serve as a waterway for water craft.

VALUE Glacier

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A field of ice.

VALUE Lake

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A standing body of water with a predominately natural shoreline surrounded by land.

VALUE Lake Dry

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION An area that at one time contained a standing body of water.

VALUE Lake Intermittent

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A standing body of water that contains water for only part of the year.

VALUE Reservoir

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A constructed basin formed to contain water.

VALUE Stream

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A body of flowing water.

VALUE Swamp or Marsh

ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Atlas of the United States

DESCRIPTION A non-cultivated, vegetated area that is inundated or saturated for a significant part of the year.

FIELD STATE ►

* ALIAS State

* DATA TYPE String

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The two-letter abbreviation for each state where the water feature is located. If the water feature falls in multiple states, multiple state codes are listed, separated by a dash.

DESCRIPTION SOURCE

Department of Commerce, National Institute of Standards and Technology

CODED VALUES

NAME OF CODELIST Federal Information Processing Standards 5–2

SOURCE National Institute of Standards and Technology

FIELD Region ►

* ALIAS Region

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The hydrologic unit code for the major river basin in which the water feature is located. Leading zeroes are not shown. If the water feature falls in two regions, the code for the region containing the majority of the water feature is used.

DESCRIPTION SOURCE

National Atlas of the United States

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 21

FIELD SQMI ►

* ALIAS SQMI

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The area of the water feature in square miles, calculated using the North America Albers Equal Area Conic projection.

DESCRIPTION SOURCE

National Atlas of the United States

DESCRIPTION OF VALUES

Calculated areas for the features.

FIELD Perimeter ►

* ALIAS Perimeter

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The length of the water feature perimeter in miles, calculated using the North America Albers Equal Area Conic projection.

DESCRIPTION SOURCE

National Atlas of the United States

DESCRIPTION OF VALUES

Calculated lengths for the features.

FIELD Shape_Length ►

* ALIAS Shape_Length

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

FIELD Shape_Area ►

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Metadata Details

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2016-08-23

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

TANDARD OR PROFILE USED TO EDIT METADATA FGDC

METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2016-08-04 14:34:09

LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-08-23 14:42:27

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2016-08-23 14:39:37

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME ArcGIS Content Team

ORGANIZATION'S NAME Esri

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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